



ENVIRONMENTAL STUDIES

UNIT I: ENVIRONMENT & ECOSYSTEM

Lecture prepared for F.Y.B.Com. By Pradnya P. Nadkarni

ENVIRONMENT

Definition:

It is the sum total of external conditions within which an object, organism or community exists

It is the complex of physical, chemical and biotic factors (climate, soil & living things etc.) that act upon an organism and ultimately determine its form and survival

ENVIRONMENTAL STUDIES

Need:

Only environmental study can make us conscious and careful about the environment

Environmental study also teaches people to understand their role in the environment and learn to live with limited natural resources so as to avoid future disasters

Scope:

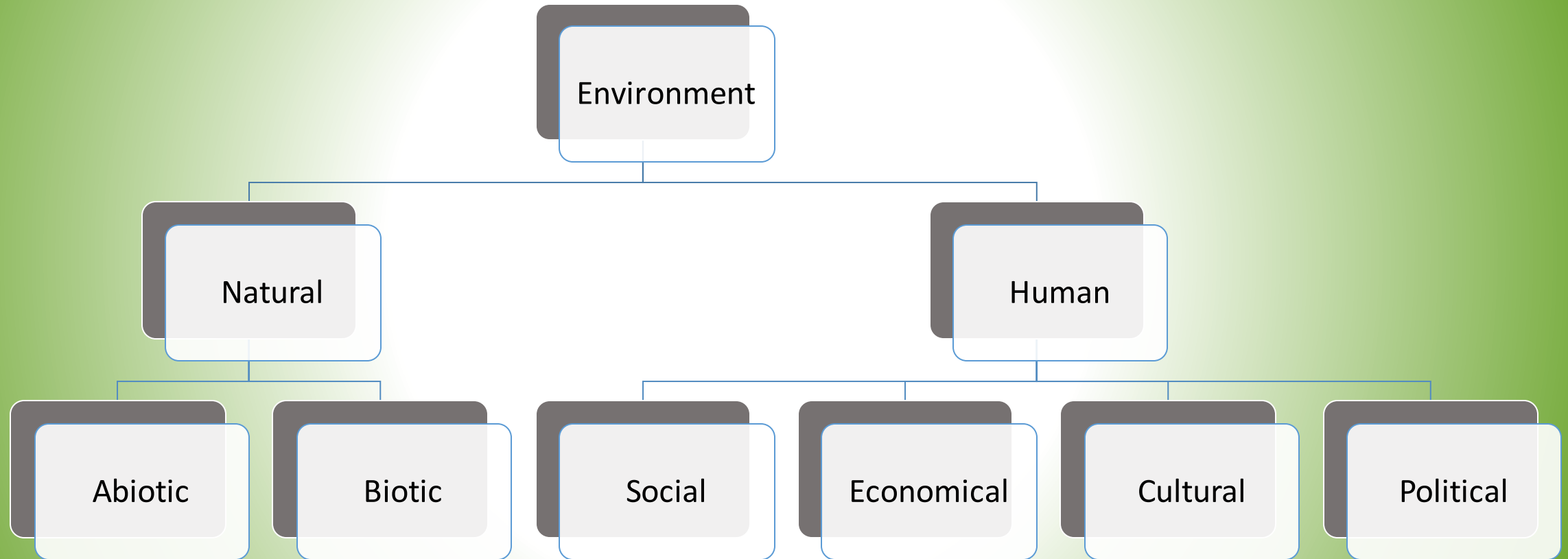
Green Business Initiatives

CSR (Corporate Social Responsibility)

Ecotels

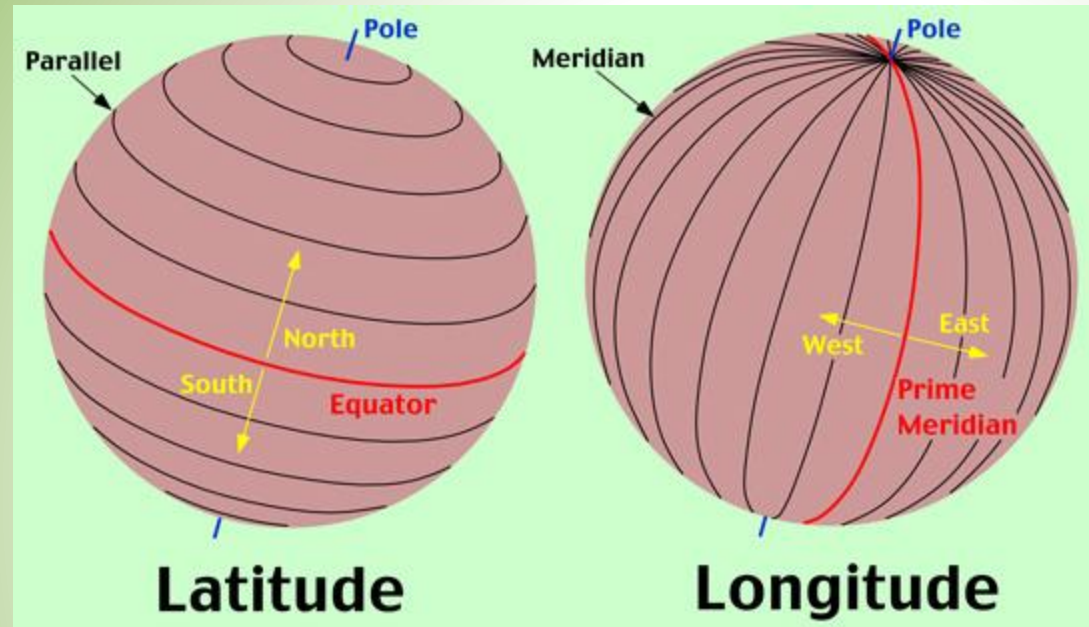
ENVIRONMENT

Components:



Abiotic Components:

1. Location



2. Topography



3. Climate:



4. Size and shape of a country:



5. Coastlines:



6. Minerals:



7. Soil:



Biotic Components:

1. Natural vegetation:



2. Animal life:

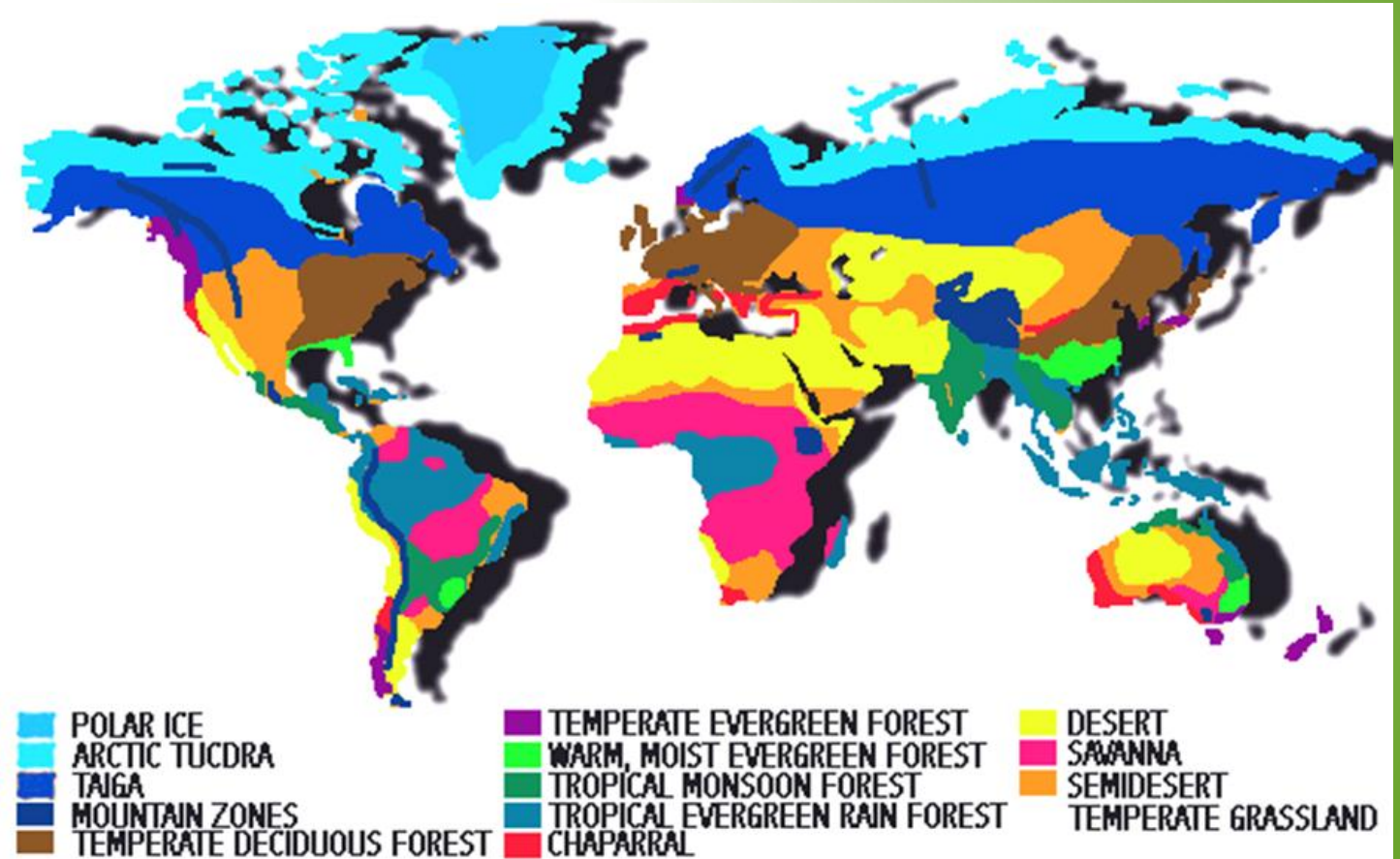


Ecology:

The study of the interrelationships between life forms and their environment

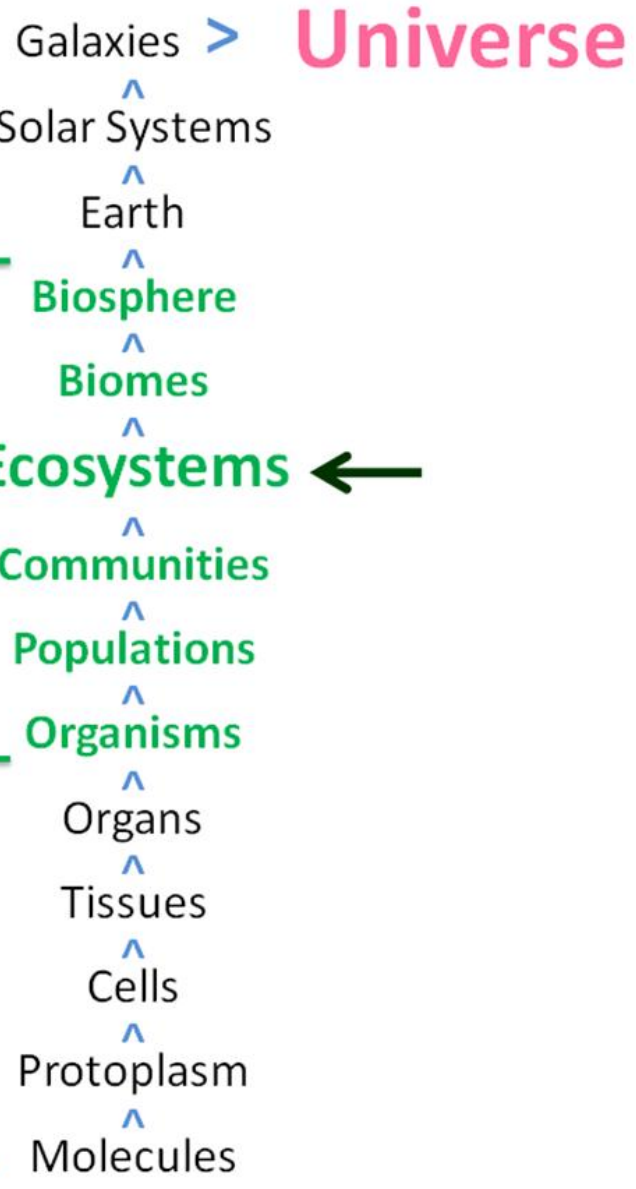
Ecosystem:

A region, usually a small one, where interaction between biotic and abiotic components results into exchange of energy and materials.

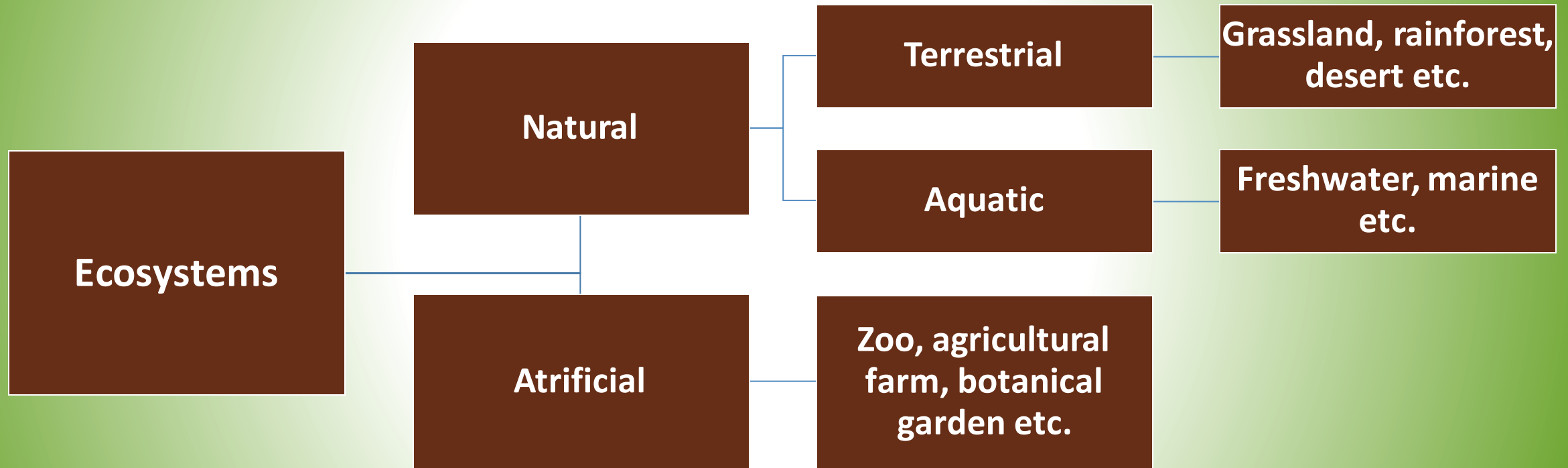


Levels of Organization

Ecology



Types of ecosystems:



Components of ecosystem:

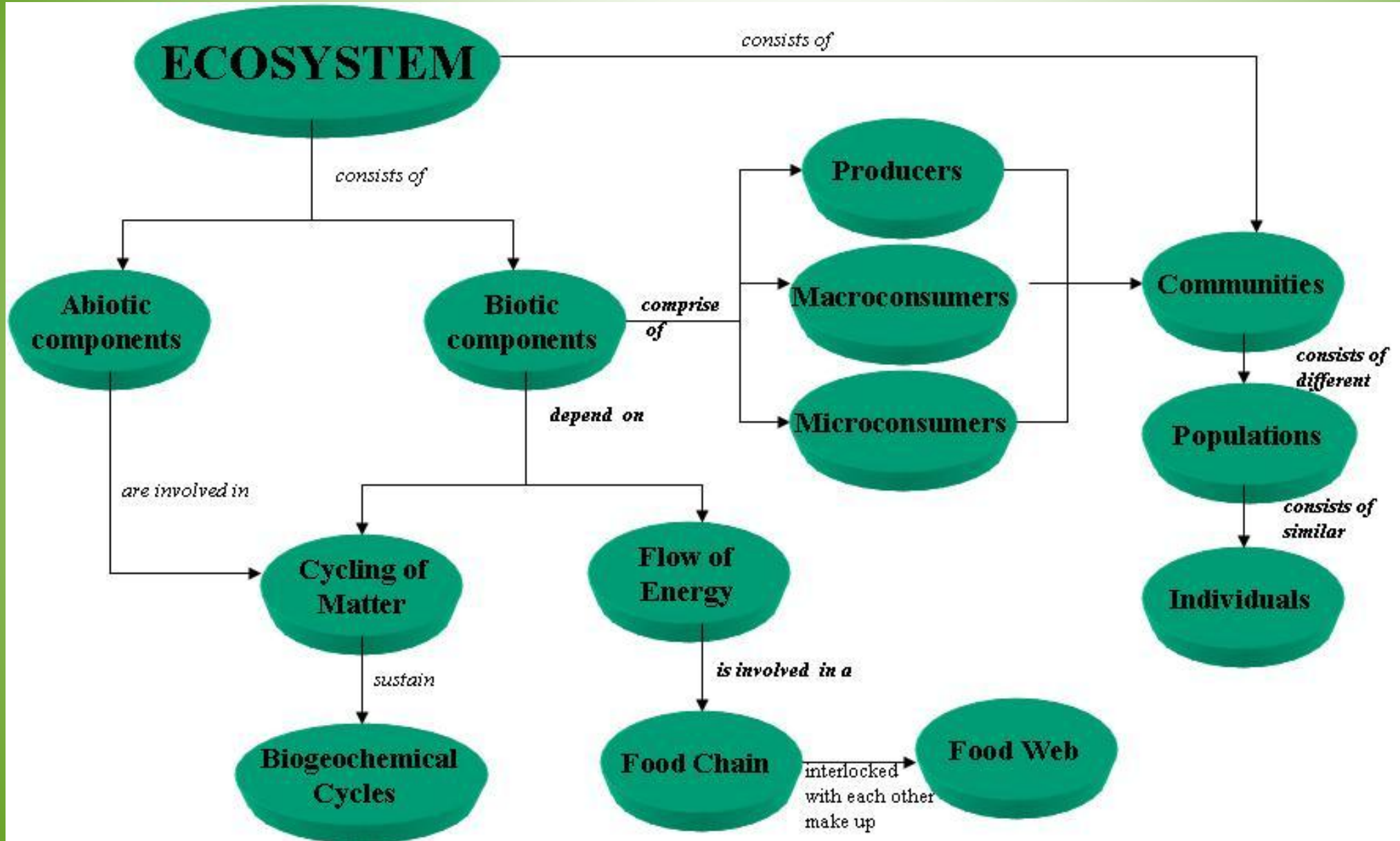
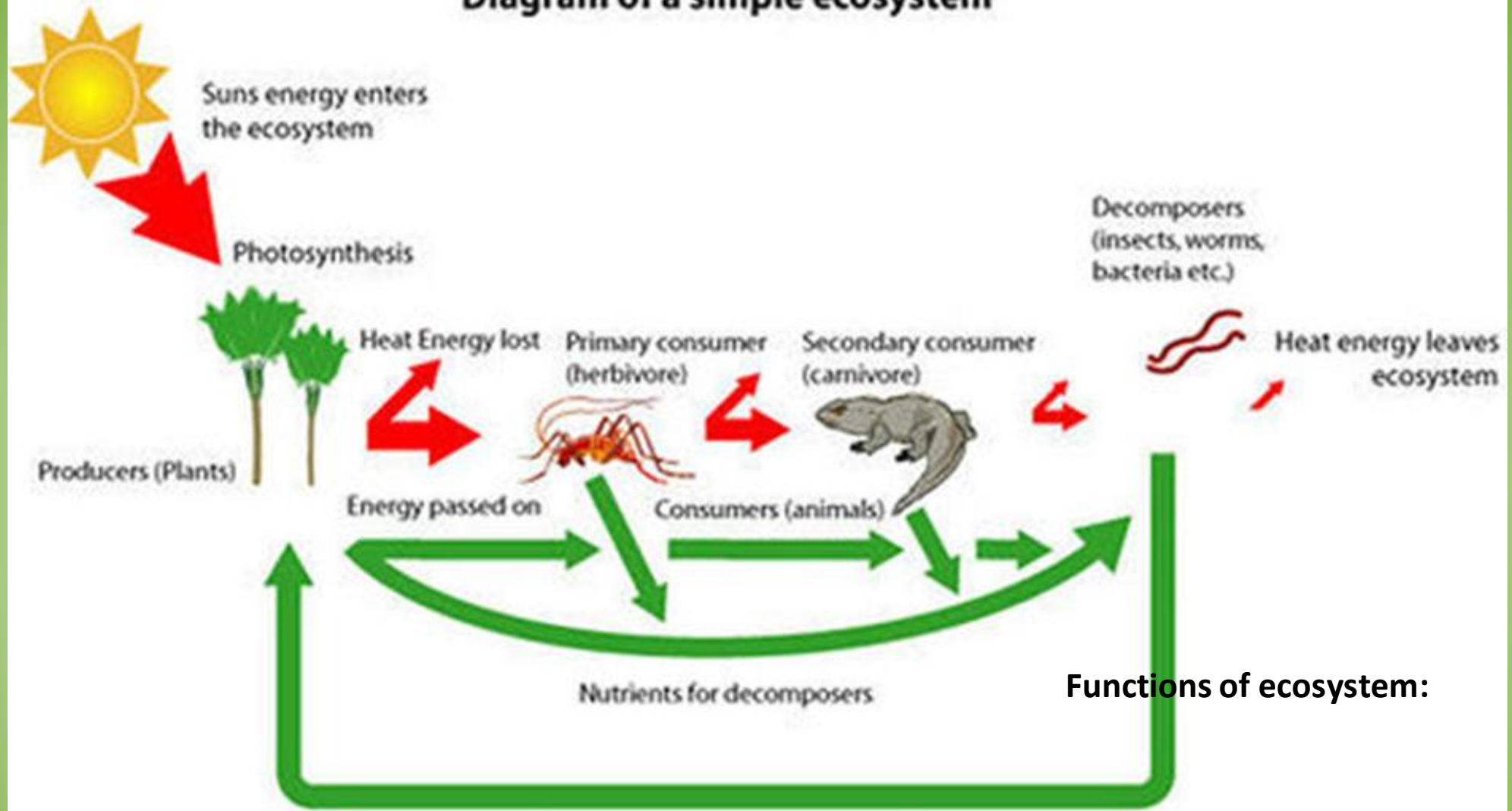


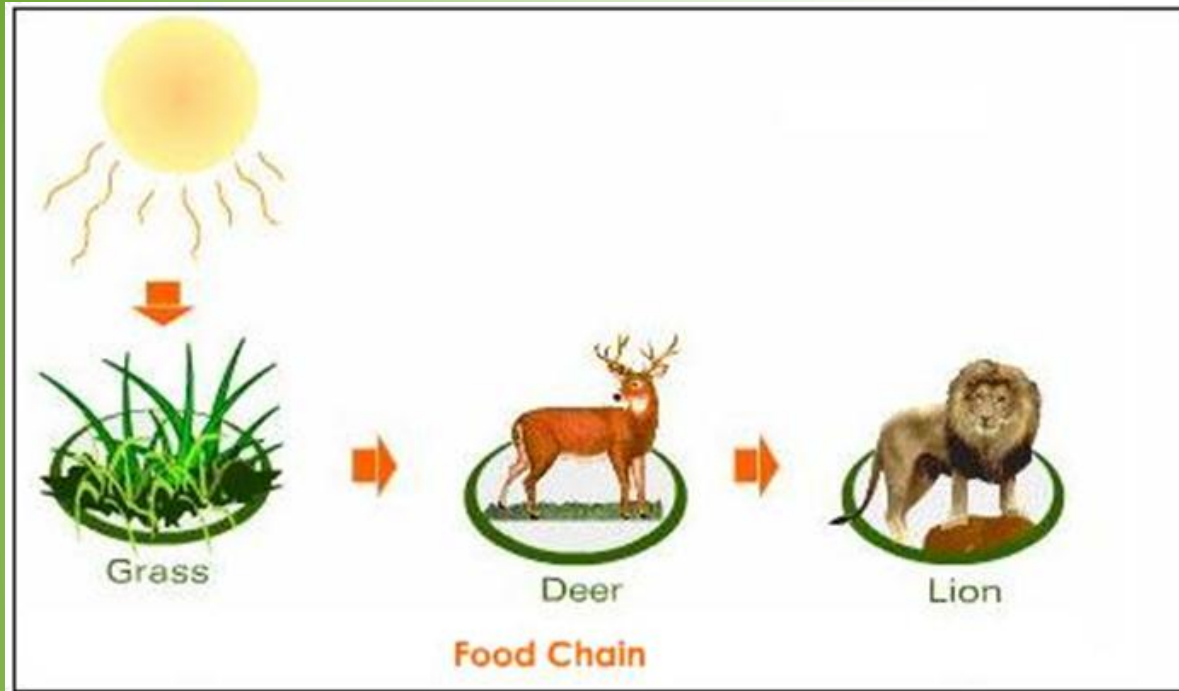
Diagram of a simple ecosystem



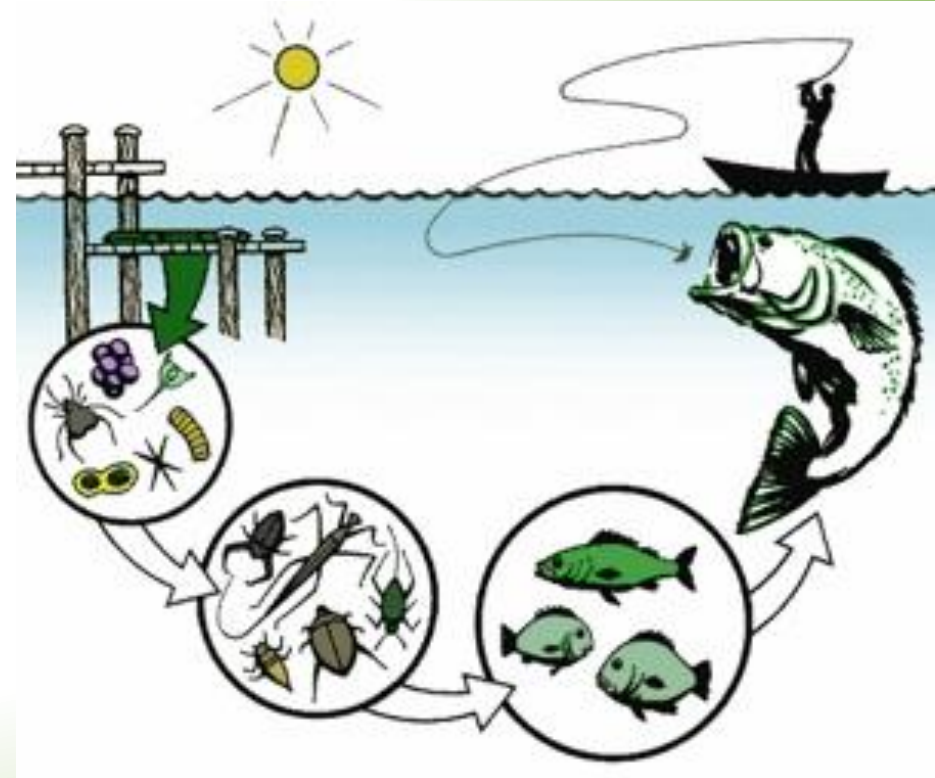
Functions of ecosystem:

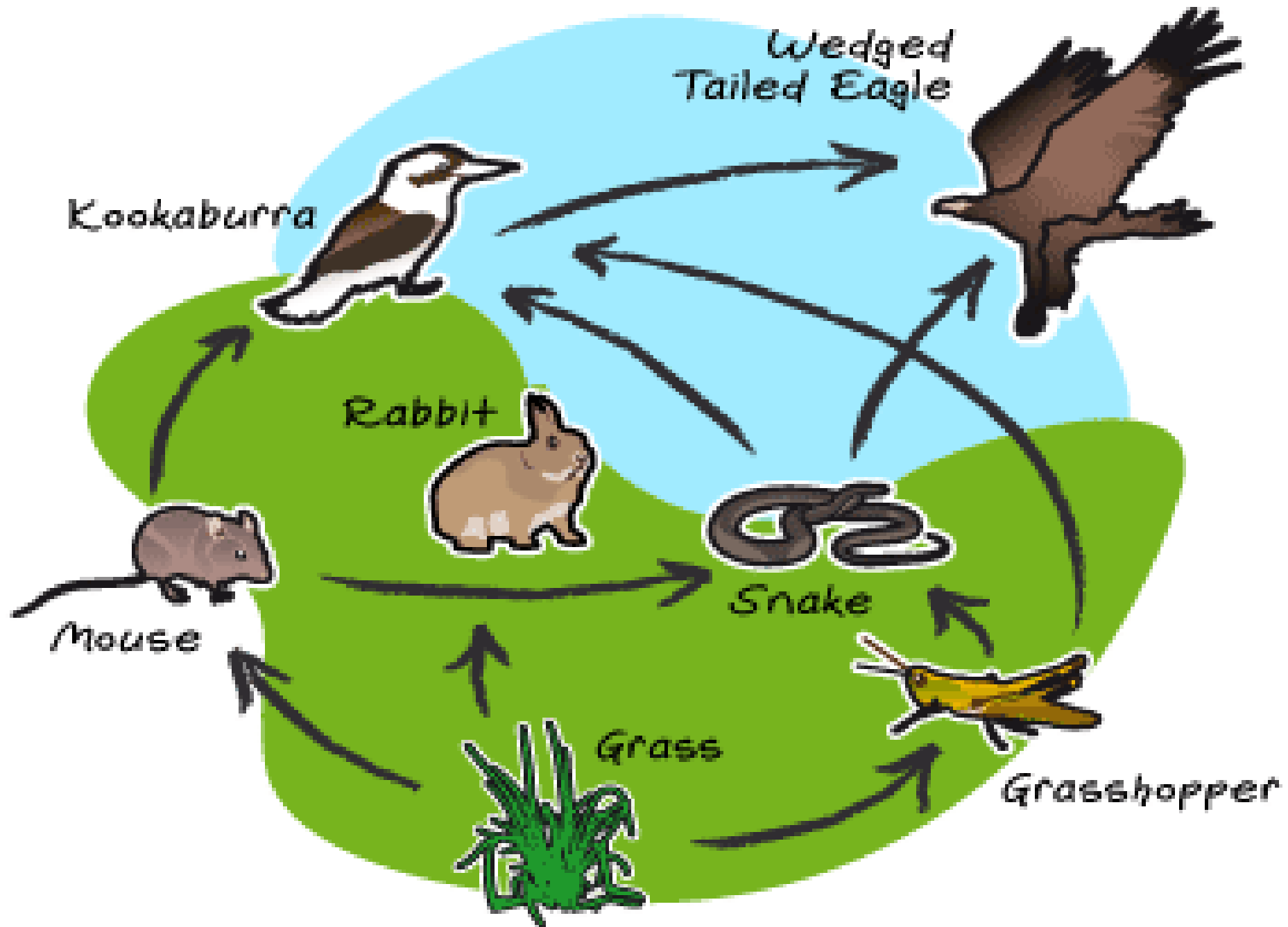


Terrestrial food chain:



Aquatic food chain:





Pyramid of Numbers

Pyramid of Biomass

Pyramid of Energy

